

Astrophysics and Planetary Science Division
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R. T. James M^cAteer

Research Areas	Quiet Sun Chromospheric Network Study of multi-wavelength observations of the chromospheric network. Development of image segmentation, Fourier and wavelet analysis techniques to detect correlated intensity oscillations across several optical wavelengths.	Sep. 2000 – Present ApJ., 2002, 567, L165 ApJ., 2003, 587, acc.
	Extended to include magnetic field data from the Advanced Stokes Polarimeter (Sac. Peak, NSO).	
	Quiet Sun TRACE observations Automated wavelet analysis techniques developed to compare and contrast quiet sun network and internetwork oscillations in UV wavelengths.	In prep.
	High Cadence Imaging Interpretation of high-cadence coronal data from solar eclipses (Bulgaria 1999 & Zambia 2001), using <i>SECIS</i> (Solar Eclipse Coronal Imaging System) and coordinated SOHO-CDS observations.	A.&A., 2002, sub. MNRAS, 2002, 336, 747
	Development of <i>RDI</i> (Rapid Dual Imager) Used at Big Bear Solar Observatory to carry out high cadence imaging of flaring active regions.	Sol.Phys., sub.
	Research at NASA / GSFC Analysis of RHESSI data. Planning of SOHO-CDS observations. Fractal analysis of active regions using MDI.	Jul. 2002-Sep. 2002 In prep.
Education	Ph. D. Astrophysics Astrophysics and Planetary Science Division, Queen's University Belfast, Belfast, N. Ireland, U.K. Supervisors – Prof. F. P. Keenan, Dr M. Mathioudakis	Sep. 2002 – Present
	M. Sci. (1st class honours) Physics with Astrophysics Astrophysics and Planetary Science Division, Queen's University Belfast, Belfast, N. Ireland, U.K.	Sep. 1996 – Jun. 2000
Awards	Co-operative Award in Science And Technology <i>Awarded by QUB for Ph. D. research</i>	Sep. 2002 – Present
	Institute Of Physics Medal <i>Awarded by IOP (Ireland) for best A-level Physics result</i>	Oct. 2000
Memberships	Fellow (Student) of the Royal Astronomical Society. Associate member of the Institute of Physics.	